

TAEP: FY 2017-18 Cattle Genetics Program - Beef EPD Requirements by Breed - 3 Options

EPDs have changed for this application period and must be current as of October 1, 2017.

Eligible beef breeds for the TAEP Genetics program must have a national breed performance testing program that participates in a National Cattle Evaluation (NCE) program recognized by the Beef Improvement Federation. Genomic Enhanced or True NCE EPDs must be calculated and printed from the most prominent breed association.

All bull types must have true NCE EPDs with minimum 0.15 accuracy for the Calving Ease (CE or BW) and Growth (WW or YW) categories. True NCE EPDs are calculated on registered bulls after the performance and contemporary group data is submitted to the breed association and calculated through the National Cattle Evaluation (NCE). *Interim EPDs, pedigree estimates, pedigree index (ie. I, I+, P, P+ or 0.05 Accuracy) or parental averages are not eligible for reimbursement.*

Producers are encouraged to purchase registered bulls from reputable seedstock breeders who provide buyers with complete reimbursement documentation at time of purchase including receipt, EID number, BSE and pedigree with current EPDs, accuracies, Genomic status and performance data.

Seedstock breeders are encouraged to submit DNA samples, performance and contemporary group data on registered bulls to the breed association and DNA testing lab early to allow adequate time to calculate Genomic Enhanced EPDs or true NCE EPDs for required traits. Seedstock breeders are encouraged to print current bull pedigree once true NCE EPDs are calculated by the breed association and keep a copy for buyers.

- **\$1,600 maximum cost-share reimbursement for bulls with eligible Genomic Enhanced EPDs.**

"Genomic" and "Parentage" fields must be complete on pedigree prior to reimbursement request.

Genomic Enhanced EPDs utilize DNA to improve the accuracy of the EPDs calculated by the respective breed association. The maximum reimbursement is \$1,600 per bull with eligible Genomic Enhanced EPDs.

- **\$1,200 maximum cost-share reimbursement for bulls with eligible true NCE EPDs (0.15 min. Accuracy).**

To Qualify: A bull must meet or exceed EPD requirements in **EACH EPD category** for **1 of the following 3 bull types**.

Each *bull type* (Balanced, Terminal or Calving Ease) has different EPD requirements.

The 3 *EPD categories* are: **Calving Ease, Growth and Maternal.**

Balanced and Calving Ease bulls must meet 3 of 3 *EPD categories*.

Terminal bulls must meet 2 of 2 *EPD categories* (Terminal bulls do not have a maternal requirement).

Payment may be denied if individual bulls do not have true NCE EPDs with minimum 0.15 accuracy calculated by their breed association at time of sale catalog printing (or sale date for private treaty sales).

Contact TAEP regarding accuracy requirements if your breed generates only one NCE per year.

Contact TAEP about other breeds: Blonde d'Aquitaine, Pinzgauer and Red Poll.

800-342-8206 or 615-837-5382 - Phone
livestock.genetics@tn.gov

NEW • CE or BW and WW or YW must meet or exceed minimum 0.15 Accuracy for all bull types •

BALANCED Bulls

(1st bull type option)

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal

Breed	1.) CALVING EASE +		2.) GROWTH +		3.) MATERNAL	
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
	CE (Acc.) or	BW (Acc.)	WW (Acc.) or	YW (Acc.)	MILK	MILK
Angus	5 (.15) or	2.8 (.15)	46 (.15) or	75 (.15)	15 to	37
Akaushi	3 (.15) or	-0.4 (.15)	22 (.15) or	43 (.15)	26 to	36
Beefmaster		0.6 (.15)	17 (.15) or	34 (.15)	7 to	14
Brahman		1.3 (.15)	12 (.15) or	20 (.15)	1 to	11
Brangus (Black)	3 (.15) or	1.6 (.15)	21 (.15) or	37 (.15)	5 to	18
Red Brangus	3 (.15) or	1.4 (.15)	14 (.15) or	18 (.15)	5 to	15
Ultrablack	3 (.15) or	1.6 (.15)	25 (.15) or	49 (.15)	5 to	17
Braunvieh	5 (.15) or	3.1 (.15)	41 (.15) or	61 (.15)	26 to	46
Charolais	4 (.15) or	0.2 (.15)	21 (.15) or	35 (.15)	3 to	23
Chiangus	4 (.15) or	2.8 (.15)	37 (.15) or	52 (.15)	12 to	27
Gelbvieh	8 (.15) or	2.2 (.15)	64 (.15) or	84 (.15)	20 to	44
Gelbvieh Balancer	11 (.15) or	1.3 (.15)	62 (.15) or	89 (.15)	17 to	40
Hereford	0.7 (.15) or	3.8 (.15)	47 (.15) or	71 (.15)	16 to	37
Black Hereford		3.1 (.15)	42 (.15) or	70 (.15)	20 to	27
Limousin	7 (.15) or	2.2 (.15)	59 (.15) or	78 (.15)	21 to	38
Lim-Flex	9 (.15) or	1.5 (.15)	62 (.15) or	90 (.15)	20 to	36
Maine Anjou	8 (.15) or	1.3 (.15)	43 (.15) or	56 (.15)	15 to	32
MaineTainer	7 (.15) or	1.3 (.15)	41 (.15) or	54 (.15)	14 to	27
Murray Grey	-0.9 (.15) or	4.5 (.15)	20 (.15) or	32 (.15)	2 to	10
Red Angus	3 (.15) or	-0.2 (.15)	54 (.15) or	75 (.15)	14 to	31
Salers	-0.3 (.15) or	2.8 (.15)	28 (.15) or	53 (.15)	10 to	30
Santa Gertrudis		-0.4 (.15)	-4 (.15) or	-4 (.15)	-3 to	9
Senepol		1.5 (.15)	4 (.15) or	6 (.15)	-3 or	15
Shorthorn	7 (.15) or	2.1 (.15)	47 (.15) or	51 (.15)	10 to	28
Simmental	8 (.15) or	2.5 (.15)	57 (.15) or	77 (.15)	13 to	33
SimGenetics	9 (.15) or	1.6 (.15)	54 (.15) or	76 (.15)	12 to	33
South Devon	0.2 (.15) or	2.8 (.15)	27 (.15) or	55 (.15)	11 to	33
Tarentaise	0 (.15) or	2.0 (.15)	-3 (.15) or	3 (.15)	-4 to	9

NEW • CE or BW and WW or YW must meet or exceed minimum 0.15 Accuracy for all bull types •

TERMINAL Bulls

(2nd bull type option)

Must meet or exceed EPD requirements for: Calving ease **and** Growth

Breed	1.) CALVING EASE +		2.) GROWTH +		3.) MATERNAL	
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
	CE (Acc.)	or BW (Acc.)	WW (Acc.)	or YW (Acc.)		
Angus	0 (.15)	or 4.7 (.15)	53 (.15)	or 93 (.15)		N/A
Akaushi	1 (.15)	or 3.1 (.15)	26 (.15)	or 47 (.15)		N/A
Beefmaster		2.0 (.15)	26 (.15)	or 46 (.15)		N/A
Brahman		2.9 (.15)	19 (.15)	or 31 (.15)		N/A
Brangus (Black)	1 (.15)	or 3.0 (.15)	28 (.15)	or 55 (.15)		N/A
Red Brangus	1 (.15)	or 2.4 (.15)	18 (.15)	or 28 (.15)		N/A
Ultrablack	1 (.15)	or 3.0 (.15)	35 (.15)	or 71 (.15)		N/A
Braunvieh	3 (.15)	or 5.1 (.15)	46 (.15)	or 72 (.15)		N/A
Charolais	-1 (.15)	or 2.7 (.15)	29 (.15)	or 54 (.15)		N/A
Chiangus	1 (.15)	or 4.0 (.15)	44 (.15)	or 65 (.15)		N/A
Gelbvieh	6 (.15)	or 3.8 (.15)	74 (.15)	or 102 (.15)		N/A
Gelbvieh Balancer	8 (.15)	or 2.7 (.15)	71 (.15)	or 107 (.15)		N/A
Hereford	-1.2 (.15)	or 5.3 (.15)	53 (.15)	or 86 (.15)		N/A
Black Hereford		4.4 (.15)	47 (.15)	or 78 (.15)		N/A
Limousin	3 (.15)	or 3.7 (.15)	67 (.15)	or 96 (.15)		N/A
Lim-Flex	6 (.15)	or 2.7 (.15)	69 (.15)	or 106 (.15)		N/A
Maine Anjou	4 (.15)	or 4.2 (.15)	50 (.15)	or 67 (.15)		N/A
MaineTainer	3 (.15)	or 3.8 (.15)	48 (.15)	or 65 (.15)		N/A
Murray Grey	-2.0 (.15)	or 5.8 (.15)	28 (.15)	or 43 (.15)		N/A
Red Angus	0 (.15)	or 1.5 (.15)	62 (.15)	or 97 (.15)		N/A
Salers	-1.1 (.15)	or 4.0 (.15)	36 (.15)	or 70 (.15)		N/A
Santa Gertrudis		1.0 (.15)	1.0 (.15)	or 1.3 (.15)		N/A
Senepol		2.5 (.15)	11 (.15)	or 15 (.15)		N/A
Shorthorn	1 (.15)	or 4.7 (.15)	55 (.15)	or 66 (.15)		N/A
Simmental	4 (.15)	or 4.4 (.15)	65 (.15)	or 96 (.15)		N/A
SimGenetics	5 (.15)	or 3.6 (.15)	63 (.15)	or 98 (.15)		N/A
South Devon	-1.9 (.15)	or 4.9 (.15)	38 (.15)	or 72 (.15)		N/A
Tarentaise	-5 (.15)	or 4.7 (.15)	9 (.15)	or 19 (.15)		N/A

CALVING EASE Bulls		<u>NEW</u> • CE or BW and WW or YW must meet or exceed minimum 0.15 Accuracy for all bull types •					
(3rd bull type option)		Must meet or exceed EPD requirements for: Calving ease and Growth and Maternal					
Breed	1.) CALVING EASE +		2.) GROWTH +		3.) MATERNAL		
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum	
	CE (Acc.)	or BW (Acc.)	WW (Acc.)	or YW (Acc.)	MILK	MILK	
Angus	9 (.15)	or 1.4 (.15)	41 (.15)	or 70 (.15)	15	to 37	
Akaushi	9 (.15)	or -1.5 (.15)	21 (.15)	or 40 (.15)	26	to 36	
Beefmaster		-1.2 (.15)	16 (.15)	or 32 (.15)	7	to 14	
Brahman		-1.0 (.15)	10 (.15)	or 18 (.15)	1	to 11	
Brangus (Black)	6 (.15)	or -0.5 (.15)	18 (.15)	or 34 (.15)	5	to 18	
Red Brangus	6 (.15)	or -0.1 (.15)	12 (.15)	or 16 (.15)	5	to 14	
Ultrablack	6 (.15)	or -0.1 (.15)	22 (.15)	or 46 (.15)	5	to 17	
Braunvieh	9 (.15)	or 0.6 (.15)	38 (.15)	or 58 (.15)	26	to 46	
Charolais	10 (.15)	or -2.2 (.15)	19 (.15)	or 34 (.15)	3	to 23	
Chiangus	10 (.15)	or 1.0 (.15)	36 (.15)	or 50 (.15)	12	to 27	
Gelbvieh	12 (.15)	or 0.2 (.15)	61 (.15)	or 82 (.15)	20	to 44	
Gelbvieh Balancer	14 (.15)	or -0.6 (.15)	59 (.15)	or 87 (.15)	17	to 40	
Hereford	4.5 (.15)	or 2.0 (.15)	43 (.15)	or 67 (.15)	16	to 37	
Black Hereford		1.6 (.15)	40 (.15)	or 67 (.15)	20	to 27	
Limousin	10 (.15)	or 0.5 (.15)	55 (.15)	or 75 (.15)	21	to 38	
Lim-Flex	12 (.15)	or -0.1 (.15)	58 (.15)	or 87 (.15)	20	to 36	
Maine Anjou	11 (.15)	or -1.0 (.15)	41 (.15)	or 52 (.15)	15	to 32	
MaineTainer	10 (.15)	or -0.3 (.15)	39 (.15)	or 50 (.15)	14	to 27	
Murray Grey	0.3 (.15)	or 2.8 (.15)	18 (.15)	or 28 (.15)	2	to 10	
Red Angus	7 (.15)	or -2.3 (.15)	49 (.15)	or 73 (.15)	14	to 31	
Salers	0.6 (.15)	or 1.1 (.15)	25 (.15)	or 51 (.15)	10	to 30	
Santa Gertrudis		-1.1 (.15)	-5 (.15)	or -7 (.15)	-3	to 9	
Senepol		-0.5 (.15)	2 (.15)	or 5 (.15)	-3	to 15	
Shorthorn	11 (.15)	or -1.0 (.15)	44 (.15)	or 48 (.15)	10	to 28	
Simmental	13 (.15)	or 0.4 (.15)	54 (.15)	or 75 (.15)	13	to 33	
SimGenetics	13 (.15)	or 0.3 (.15)	52 (.15)	or 74 (.15)	12	to 33	
South Devon	2.6 (.15)	or 0.4 (.15)	24 (.15)	or 52 (.15)	11	to 33	
Tarentaise	3 (.15)	or 0 (.15)	-5 (.15)	or 1 (.15)	-4	to 9	

Example:

Does this Angus bull qualify?

As which bull type?

CE = 9 (0.18 accuracy)

BW = 2.9 (0.24 accuracy)

WW = 40 (0.21 accuracy)

YW = 74 (0.05 accuracy)

Milk = 37

BALANCED Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal
Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE)

acceptable greater than 5

Birth Weight (BW)

unacceptable greater than 2.8

Calving ease category: **acceptable** meets CE requirement
** CE has accuracy value greater than 0.15 **

Weaning Weight (WW) unacceptable lower than 46
Yearling Weight (YW) unacceptable lower than 75

Growth category: **unacceptable** meets *neither* WW or YW requirements
** Only WW has an accuracy value greater than 0.15 **

Milk acceptable falls between 15-37

Maternal category: **acceptable** meets Milk requirement (37 is max.)

This bull does not qualify as a "Balanced" bull: Growth category is unacceptable

TERMINAL Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth only
Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE) acceptable greater than 0
Birth Weight (BW) acceptable lower than 4.7

Calving ease category: **acceptable** meets *both* CE and BW requirements
** Both CE and BW have accuracy values greater than 0.15 **

Weaning Weight (WW) unacceptable lower than 53
Yearling Weight (YW) unacceptable lower than 93

Growth category: **unacceptable** meets *neither* WW or YW requirements
** Only WW has an accuracy value greater than 0.15 **

Milk *not required for Terminal bulls*

Maternal category: *not a required category for Terminal bulls*

This bull does not qualify as a "Terminal" bull: Growth category is unacceptable

CALVING EASE Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal
Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE) acceptable equals 9
Birth Weight (BW) unacceptable greater than 1.4

Calving ease category: **acceptable** meets CE requirement
** Both CE and BW have accuracy values greater than 0.15 **

Weaning Weight (WW) unacceptable lower than 41
Yearling Weight (YW) acceptable greater than 70

YW accuracy unacceptable lower than 0.15

Growth category: **unacceptable**

** Only WW has an accuracy value greater than 0.15 **

If this bull has a 0.05 Accuracy for CE, BW, WW and YW:

This bull does NOT qualify as a TAEP bull.

If registered bull has YW performance and contemporary data from NCE: YW = 75 (0.20 acc)

Weaning Weight (WW) unacceptable lower than 41

Yearling Weight (YW) acceptable greater than 70

YW accuracy acceptable YW meets EPD at acceptable accuracy

Growth category: **acceptable** meets YW requirement for both
EPD and accuracy

Milk acceptable falls between 15-37

Maternal category: **acceptable** meets Milk requirement (37 is max.)

This bull does qualify as a "Calving Ease" bull: All 3 categories are acceptable

This bull would be reimbursed up to a maximum of \$1,200.

If reg. bull has Genomic Enhanced EPDs and YW performance and contemporary data from NCE: YW = 75 (0.35 acc)

If this bull's eligible EPDs are Genomic Enhanced:

This bull would be reimbursed up to a maximum of \$1,600.

TAEP: FY 2017/2018 Cattle Genetics Program - Minimum Dairy LNM or Index Requirements by Breed

To Qualify: A bull must meet or exceed the requirements in **1 of the 2** categories.

BREED	LNM	or	Index	Value
HOLSTEIN	308	or	TPI	1719
Red & White	308	or	TPI	1719
AYRSHIRE	223	or	PTI	83
BROWN SWISS	174	or	PPR	80
GUERNSEY	102	or	PTI	78
JERSEY	217	or	JPI	82
MILKING SHORTHORN	50			